

Rec'd PCT/PTO 07 DEC 2004

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of )  
SCHULTE et al. ) BOX PCT  
)  
International Application )  
PCT/EP 03/05592 )  
)  
Filed: Unassigned )  
)

For: PREPARATION OF TRANSITION METAL COMPOUNDS AND THEIR USE  
IN CATALYST SYSTEMS FOR THE POLYMERIZATION AND  
COPOLYMERIZATION OF OLEFINS

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231  
Sir:

This subject information disclosure statement is submitted in connection with applicants' continuing duty of disclosure under 37 CFR 1.56.

Listing of Relevant Documents

The relevant documents are listed in the attached Form PTO-1449.

REMARKS

EP 129 368; U.S. 4,752,597; U.S. 5,017,714; EP 320 762; EP 416 815; EP 537 686 (= U.S. 5,304,614); EP 669 340; H.H. Brinzinger, Angew.Chem. 107 (1995), 1255; H.H. Brinzinger, Journal of Organometallic Chemistry, 232 (1982) 233-247; EP 576 970 = U.S. 6,051,727, U.S. 5,840,644, U.S. 5,770,753; EP 659 757 are found in the specification on page 1.

WO 01/48034 is found in the specification on pages 1 and 19.

WO 98/22486 is found in the specification on pages 12 and 19.

WO 98/40331 is found in the specification on pages 20 and 33.

Torkil Holm, Thermochemical Bond Dissociation Energies of Carbon-Magnesium Bonds, J.C.S. Perkin Trans 2, 1981, 464-467 is found in the specification on page 18.

Advanced Organic Chemistry, Fourth Ed. 1992, 464-467, Jerry March is found in the specification on page 18.

WO 00/31090 is found in the specification on pages 22 and 24.

WO 91/09882 is found in the specification on page 23.

WO 99/06414 = U.S. 6,417,302 is found in the specification on page 24.

WO 96/00243 is found in the specification on page 27.

WO 98/40419 is found in the specification on page 27.

WO 00/05277 = U.S. 6,589,905 is found in the specification on page 27.

DE 19936185 = EP 1 974 557 is found in the specification on page 33.

Ryabov A.N., Zirconium Complexes with Cyclopentadienyl Ligands Involving Fused a Thiophene Fragment, Organometalics 2002, 21, 2842-2855 is listed in the international search report in category "X".

EP 576 970 and EP 790 076 are listed in the international search report in category "A".

Beilstein accession No. BRN 3296411 and Beilstein accession No. BRN 3261007 are listed in the international search report in category "X".

A copy of the international search report is attached.

Entry is respectfully solicited.

Respectfully submitted,

KEIL & WEINKAUF



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Form PTO-1449

Document Number  
LU6022

Application Number

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

Applicant Schulte et al.

Filing Date

Group Art Unit

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS						
Exam. Init.	Document Number	Date	Name	Class	Sub- Class	Filing Date
	4,752,597	6/21/88	Turner			
	5,840,644	11/24/98	Kueber et al.			
	5,770,753	6/23/98	Kueber			
	5,017,714	5/21/91	Welborn, Jr.			
	6,051,727	4/18/00	Kueber et al.			
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Sub- Class	Filing Date
	120 368	12/84	European			
	320 762	6/89	European			
	576 970	1/94	European			
	659 757	6/95	European			
	01/48034	7/01	PCT			
	526 815	3/91	European			
	537 686	4/93	European			
	669 340	8/95	European			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Angew.Chem.1995,107, 1255-1283, Britzinger et al.					
	Jrl.Organ.Chem., 232(1982)233-247, Brintzinger et al.					
EXAMINER		DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						

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LU6022Sheet 2\_\_ of 3  
Application NumberINFORMATION DISCLOSURE CITATION  
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U.S. PATENT DOCUMENTS						
Exam. Init.	Document Number	Date	Name	Class	Sub- Class	Filing Date
	6,589,905	7/8/03	Fischer et al.			
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Sub- Class	Filing Date
	98/22486	5/98	PCT			
	576 970	1/94	European			
	98/40331	9/98	PCT			
	790 076	8/97	European			
	1 074 557	2/01	European			
	00/31090	6/00	PCT			
	91/09882	7/91	PCT			
	99/06414	2/99	PCT			
	96/00243	1/96	PCT			
	98/40419	9/98	PCT			
	00/05277	2/00	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Holm, Thermochemical Bond Dissociation Energies of					
	Carbon-Magnesium Bonds, J.C.S. Perkin II 464-467(1981)					
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Sheet 3\_\_ of \_3\_

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U.S. PATENT DOCUMENTS						
Exam. Init.	Document Number	Date	Name	Class	Sub- Class	Filing Date
	6,417,302	7/9/02	Bohnen			
	5,304,614	4/19/94	Winter et al.			
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Sub- Class	Filing Date
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Advanced Organic Chemistry, Fourth Ed. 1992, 464-467, Jerry March					
	Organometalics 2002, 21, 2842-2855, Ryabov et al.					
	XP-002252207, Beilstein accession No. 3296411					
	XP-002252208, Beilstein accession No. BRN 3261007					
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